



10-20.04

2635 #41

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number 09/957,004

Filing Date September 19, 2001

First Named Inventor TIERLING, Kollie

Art Unit 2635

Examiner Name Nguyen, Nam V.

Total Number of Pages in This Submission

Attorney Docket Number IMM135

Technology Center 2600

**ENCLOSURES (check all that apply)**☒ Fee Transmittal Form☒ Fee Attached☒ Amendment / Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☐ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Response to Missing Parts/  
Incomplete Application☐ Response to Missing  
Parts under 37 CFR  
1.52 or 1.53☒ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a  
Provisional Application☐ Power of Attorney, Revocation  
Change of Correspondence Address☐ Terminal Disclaimer☐ Request for Refund☐ CD, Number of CD(s) \_\_\_\_\_☐ After Allowance Communication to  
Technology Center (TC)☐ Appeal Communication to Board of  
Appeals and Interferences☐ Appeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☒ Other Enclosure(s)  
(please identify below):**See Remarks Below**

Remarks

Express Mail Certificate No. EV 463 356 015 US; Transmittal  
Form; Petition for Extension of Time Under 37 CFR 1.136(a);  
and Return Postcard**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**Firm  
or  
Individual name

Bret T. Winterle, Reg. No. 54,546, Kilpatrick Stockton LLP

Signature

Date

October 19, 2004

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name

Signature

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-04v2)

Approved for use through 07/31/2006, OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL  
for FY 2005**

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 484

Complete if Known

Application Number	09/957,004
Filing Date	September 19, 2001
First Named Inventor	TIERLING, Kollin
Examiner Name	Nguyen, Nam V.
Art Unit	2635
Attorney Docket No.	IMM135

**RECEIVED**

OCT 25 2004

Technology Center 2600

**METHOD OF PAYMENT (check all that apply)**☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit  
Account  
Number

16-1435

Deposit  
Account  
Name

Kilpatrick Stockton LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	790	2001	395	Utility filing fee	
1002	350	2002	175	Design filing fee	
1003	550	2003	275	Plant filing fee	
1004	790	2004	395	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

**SUBTOTAL (1)**

(\$ 0)

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims		Extra Claims		Fee from below		Fee Paid	
29		-26 **		= 3		X 18	
Independent Claims		-3 **		= 0		X	
Multiple Dependent						X	

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	88	2201	44	Independent claims in excess of 3
1203	300	2203	150	Multiple dependent claim, if not paid
1204	88	2204	44	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)**

(\$ 54)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	430	2252	215	Extension for reply within second month	430
1253	980	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1401	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	300	2403	150	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,370	2453	685	Petition to revive - unintentional	
1501	1,370	2501	685	Utility issue fee (or reissue)	
1502	490	2502	245	Design issue fee	
1503	660	2503	330	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)**

(\$ 430)

**SUBMITTED BY**

Complete (if applicable)

Name (Print/Type)	Bret T. Winterie	Registration No. (Attorney/Agent)	54,546	Telephone	336.607.7300
Signature		Date	October 19, 2004		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

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## EXPRESS MAIL CERTIFICATE

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OCT 25 2004

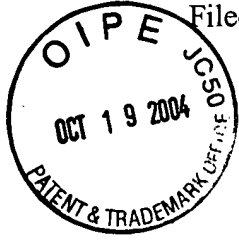
Technology Center 2600

"Express Mail" Label No. : EV 463 356 015 US  
Serial No. : 09/957,004  
Applicant(s) : TIERLING, Kollin  
Filing Date : September 19, 2001  
Title: : Circuit and Method for a Switch Matrix  
and Switch Sensing  
Examiner : Nguyen, Nam V.  
Group Art Unit : 2635  
Type of Document(s) : Express Mail Certificate;  
Transmittal Form;  
Fee Transmittal for FY 2005 (*in duplicate*);  
Response to Non-Final Office Action (24 pgs.);  
Drawings 6 pages, FIGS 1-7;  
Petition for Extension of Time Under 37 CFR 1.136(a);  
Check # 374185 for \$484 in fees due; and  
Return Postcard

I hereby certify that the documents identified above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and are addressed to Mail Stop Amendment, Commissioner for Patents, P O Box 1450, Alexandria, VA 22313-1450.

Carol McCabe (signature)  
Carol McCabe

Date Mailed: October 19, 2004



Application No.: 09/957,004  
Filed: September 19, 2001

Express Mail No. EV 463 356 015 US  
Attorney Docket No.: IMM135  
**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Kollin Tierling

Examiner: Nam V. Nguyen

Art Unit: 2635

**RECEIVED**

Application No.: 09/957,004

OCT 25 2004

Filed: September 19, 2001

Technology Center 2600

For: Circuit and Method for a Switch Matrix and Switch Sensing

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO NON-FINAL OFFICE ACTION**

Dear Sir:

In response to the non-Final Office Action mailed by the Office on May 19, 2004,  
Applicants submit the following Amendment and Remarks.

**Amendments to the Specification** – begin on page 2 of this paper.

**Amendments to the Claims** – begin on page 4 of this paper.

**Amendments to the Drawings** – begin on page 14 of this paper and include attached  
replacement sheets.

**Remarks** – begin on page 15 of this paper.

An **Appendix** including amended drawing figures is attached following page 24 of this  
paper.

10/21/2004 SSESHE1 00000086 09957004

02 FC:1202

54.00 0P